IN THE UNITED STATES PATENT AND TRADEMARK CEFICE 2811

Group Art Unit Examiner: Atty. Dkt.

Inventor(s): MANABE et al. Appln. No.:

Series Codo ↑

February 15, 2001

Hon. Commissioner of Patents Washington, D.C. 20231

Sir:

Filed:

REPLY/AMENDMENT/LETT

783,035

Serial No. 1

Tran, M. 276665

F199-156-USDIV Client Ref

M# Appln. Title: LIGHT-EMITTING SEMICONDUCTOR

DEVICE USING GROUP III NITRIDE

COMPOUND

Date: July 3, 2001

This is a reply/amendment/letter in the above-identified application and includes the herewith attachment of same date and subject which is incorporated hereinto by reference and the signature below is treated as the signature to the attachment in absence of a signature thereto.

## FEE REQUIREMENTS FOR CLAIMS AS AMENDED

1. Small Entity claim  A. ☑ NOT made  B. ☐ Withdrawn  C. ☐ made herewith  D. ☐ made previously  For B & C See Required Separate Paper (Pat-256)	Claims remaining after amendment	Highest number previously paid for		Present Extra	Large/Small Entity	Additional Fee	Fee Code Lg/Sm
2. Total Effective Claims	3	**minus	20	0	x \$18/\$9 =	+ \$0	103/203
3. Independent Claims	2	***minus	3	0	x \$80/\$40 =	+ \$0	102/202
4. If amendment enters <u>proper</u> multiple dependent claim(s) into this application for <u>first</u> time (leave <u>blank</u> if this is a <u>reissue</u> application)						+ \$0	104/204
( ,				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
6. Petition is hereby made to extend the original due (1 mo)   \$110/\$55 =   date to cover the date this response is filed for which the (2 mos)   \$390/\$195 =   +\$0 requisite fee is attached (3 mos)   \$890/\$445 =   (Usable only for 30 day/1mo.OA 5 mos)   \$1390/\$695 =   \$1890/\$945 =							115/215 116/216 117/217 118/218 128/228
7. Enter any previous extension fee paid since above original due date and subtract - \$0							
8. Extension Fee Attached						+ \$0	
9. If <u>Terminal Disclaimer</u> attached, <u>add</u> Rule 20(d) official fee						+ \$0	148/248
10. If IDS attached requires Official Fee under Rule 97 (c),						+\$0	126 126
11. After-Final Request Fee per rules 129(a) and 17(r) + \$710/355						+ \$0	146/246
12. No. of additional inventions for examination per Rule 129(b) x \$710/355 ea						+ \$0	149/249
13. Request for Continued Examination (RCE)						+ \$0	1179/1279
14. Petition fee for						+ \$0	
15. TOTAL FEE ENCLOSED =						\$0	
16 *If the entry in this snace is less than entry	u in nevt cance the	"Drocont Extra	" recult i	c "O"		<u> </u>	

16. \*If the entry in this space is less than entry in next space, the "Present Extra" result is "0"

17. \*\*If the "Highest number previously paid for" in this space is less than 20, write "20" in this space.

18. \*\*\* If the "Highest number previously paid for" in this space is less than 3, write "3" in this space.

Our Deposit Account No. 03-3975)

(Our Order No. 031317 276665

CHARGE STATEMENT: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or hereafter relative to this application and the resulting Official Document under Rule 20, or credit any overpayment, to our Accounting/Order Nos. shown above, for which purpose a duplicate copy of this sheet is attached.

This CHARGE STATEMENT does not authorize charge of the issue fee until/unless an issue fee transmittal sheet is filed.

Query: Is appeal deadline now? If so, file Notice of Appeals separately

Pillsbury Winthrop LLP Intellectual Property Group

Gregory P. Brummett By Atty:

Reg. No. 41646

McLean, VA 22102 Tel: (703) 905-2000

1600 Tysons Boulevard

Sig:

Fax:

(703) 905-2500 (703) 905-2024

Tel:

Atty/Sec: GPB/gpb NOTE: File this cover sheet in duplicate with PTO receipt (PAT-103A) and attachments

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION Of E

MANABE et al.

JUL 0 3 200

Application No. 09/783,03

Group Art Unit: 2811

Filed: February 15, 2001

Examiner: M. Tran

Title: LIGHT-EMITTING SEMICONDUCTOR

DEVICE USING GROUP III NITRIDE COMPOUND

July 3, 2001

## THIRD PRELIMINARY AMENDMENT

Hon. Commissioner of Patents Washington, D.C.

Dear Sir:

ir:

Prior to the examination, please amend the above-identified application as follows:

IN THE CLAIMS!

Please add the following new claim:

18. (new) A semiconductor light emitting device comprising:

an n-type clad layer consisting of a gallium nitride based compound semiconductor; an active layer consisting of a gallium nitride based compound semiconductor, said active layer being made from a material having a band gap energy smaller than that of said n-type

clad layer;

a p-type clad layer consisting of a gallium nitride based compound semiconductor, said ptype clad layer being made from a material having a band gap energy greater than that of said active layer, and sandwiching said active layer accompanying with said n-type clad layer,

wherein said materials of said n-type clad layer and said p-type clad layer are selected so as to make a band gap energy of said n-type clad layer smaller than the band gap energy of said p-type clad layer.